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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/977,684	10/16/2001	Dong-Gyu Kim		3843
32605	7590	06/02/2006	EXAMINER	
MACPHERSON KWOK CHEN & HEID LLP 1762 TECHNOLOGY DRIVE, SUITE 226 SAN JOSE, CA 95110				NGUYEN, DUNG T
		ART UNIT		PAPER NUMBER
				2871

DATE MAILED: 06/02/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No.	Applicant(s)	
	09/977,684	KIM, DONG-GYU	
	Examiner Dung Nguyen	Art Unit 2871	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 03 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1) Responsive to communication(s) filed on 16 March 2006.

2a) This action is FINAL. 2b) This action is non-final.

3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4) Claim(s) 1-25 is/are pending in the application.

4a) Of the above claim(s) 1-5 and 8-19 is/are withdrawn from consideration.

5) Claim(s) _____ is/are allowed.

6) Claim(s) 6-7,20-25 is/are rejected.

7) Claim(s) _____ is/are objected to.

8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9) The specification is objected to by the Examiner.

10) The drawing(s) filed on _____ is/are: a) accepted or b) objected to by the Examiner.

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

a) All b) Some * c) None of:

- Certified copies of the priority documents have been received.
- Certified copies of the priority documents have been received in Application No. _____.
- Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) Notice of References Cited (PTO-892)

2) Notice of Draftsperson's Patent Drawing Review (PTO-948)

3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____.

4) Interview Summary (PTO-413)
Paper No(s)/Mail Date _____.

5) Notice of Informal Patent Application (PTO-152)

6) Other: _____.

DETAILED ACTION

Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 03/16/2006 has been entered.
2. Applicant's amendment dated 03/16/2006 has been received and entered. By the amendment, claims 6-7, 20-25 are remain pending in the application. Claims 1-5 and 8-19 stand withdrawn from consideration.

Claim Rejections - 35 USC § 103

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.
4. Claim 6 is rejected under 35 U.S.C. 103(a) as being unpatentable over Matsuyama et al., US Patent No. 5633,739, in view of Takao et al., US Patent No. 5,568,293.

Regarding claim 6, Matsuyama disclose a method for fabricating a liquid crystal display (LCD)(figure 11a-11e) comprising the step of:

- . forming a black matrix (BM) on a substrate (SUB2);
- . forming a plurality of color filters (FIL(B/R/G)), each the color filter has a flat central portion and a peripheral portion.

Matsuyama et al, however, do not disclose the peripheral portions of the neighboring color filter overlap each other and having a taper angle less than 40 degrees. Takao et al. do disclose a color filter (B/G/R) can be overlapped to each other with a taper angle less than 40 degrees (respect to the normal line). Therefore, it would have been obvious to one skilled in the art at the time of the invention was made to modify the Matsuyama et al. color filter having at least a part of the peripheral portion overlapping to each other with a taper angle less than 40 degrees as shown by Takao et al. in order to reduce alignment effect (col. 2, ln 9-13).

5. Claim 7 is rejected under 35 U.S.C. 103(a) as being unpatentable over Matsuyama et al., US Patent No. 5633,739, in view of Takao et al., US Patent No. 5,568,293, further in view of Nakamura et al., US Patent No. 5,725,975.

Regarding claim 7, the modification to Matsuyama et al. disclose the claimed invention as stated above except for using a mask to pattern the color filter. Nakamura et al. do disclose a mask having three different regions as claimed for forming a color filter (figure 5B, col. 6). Therefore, it would have been obvious to one skilled in the art at the time of the invention was made to use a mask having three different regions making the Matsuyama et al color filter as shown by Nakamura et al. in order to obtain a high accuracy and efficiency at a low cost (col. 2, ln 24-29).

6. Claims 20-25 are rejected under 35 U.S.C. 103(a) as being unpatentable over Matsuyama et al., US Patent No. 5633,739, in view of Takao et al., US Patent No. 5,568,293, further in view of Kim, US Patent No. 6,567,150.

Regarding the above claims, the modification to Matsuyama et al. disclose the claimed invention as stated above except for the step of forming a plurality of gate/data lines, a thin film

transistor (TFT). Kim does disclose the step of forming a plurality of gate lines, a plurality of data lines as well as a TFT (bridging paragraph from col. 1 to col. 2) Therefore, it would have been obvious to one skilled in the art at the time of the invention was made to employ the Matsuyama et al. device a plurality of gate/data lines and a TFT as shown by Kim for display driving purposes.

Response to Arguments

7. Applicant's arguments filed 03/16/2006 have been fully considered but they are not persuasive.

Applicant contend that Matsuyama teaches away from a modification, Takao fails to disclose the step of "sequentially forming a color filters the black matrix" (amendment, page 9), as well as a taper angle less than 40 degrees. The Examiner respectfully disagrees with Applicant's view point since the combination of Matsuyama et al. and Takao et al. do divide the color filter into areas (e.g., separating) at least in the upper surface of the color filter as Matsuyama's required. In addition, Matsuyama do disclose the step of "sequentially forming a color filters the black matrix" as claimed, and such combination do not attempt replace all steps by Takao et al.. Finally, as stated above, the taper angle do show less than 40 degrees.

Accordingly, the rejection of the above claims stand.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Dung Nguyen whose telephone number is 571-272-2297. The examiner can normally be reached on Tuesday-Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Nelms can be reached on 571-272-1782. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.



Dung Nguyen
Primary Examiner
Art Unit 2871

DN
05/30/2006